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## Panama Canal, Greatest Of Engineering Feats

United States Eclipses All the World In Its Work In Digging the Big Ditch  
for Ships.  
By FREDERIC J. HASKIN.

No other engineering undertaking in the entire history of the world compares with that of digging the Panama canal. It required 100,000 men 20 years to build the canal; as much dirt is excavated at Panama in 12 months as the Manchester ship canal was a number of years in building; that task is duplicated in 12 months at Panama.

It took the French as many years to discover that they could not build a 15 foot canal as it will take the United States to make it a finished waterway 40 feet deep; and it cost the French as much to make a failure of their project as it will cost the United States to make a success of its undertaking.

Greatest Digging in History.  
Chief Engineer George W. Goethals has made himself the greatest digger in history. In four years he has excavated enough material to make a monument of dirt with a base as large as the height of the Washington monument and towering far into the regions of perpetual snow. The material would fill a modern dirt train long enough to circle the globe twice and a half times. When Uncle Sam took the canal from the French, he found it was a failure. It was a failure because it was not a canal. It was a ditch. It was a ditch that would require nine years to excavate 105,000,000 yards of dirt; at the rate the work is now progressing he will have moved 165,000,000 yards in five years.

The middle section of the canal, 34 miles long, has a water level 55 feet higher than the sections from Gatun to Colon and from Colon to Panama. The canal diggers are damming up the Chagres river at Gatun so as to make a great lake, cutting a great ditch through the Culebra mountain to the sea. The water of this lake is back up to a depth of 40 feet above the mountain. This requires a dam to be built across the river. The dam will be 115 feet high and 30 feet wide at the top.

Phoenix, Arizona.  
Mr. Frederic J. Haskin,  
Care The Herald,  
El Paso, Texas.  
Dear Sir:-  
I have glanced through your new book, "The American Government," with a great deal of interest. I have read the article on the President and I am sure that it is going to be very interesting reading indeed. You should have a large circulation for your book.

Yours very truly,  
Lloyd B. Christy,  
Mayor.

The water in the lake it creates. It covers 233 acres of land. Its slope is so gradual as hardly to be noticed in the lake. It is a yardstick and raise one end three inches higher than the other and the water level will be considerably raised. The water level is now 10 feet above the level of the sea.

One of the problems which the engineers have had to encounter in building the Gatun dam is the disposing of the vast amount of surplus water which comes down the Chagres river. The river is a muddy stream, sometimes quiet and shallow and at other times a torrential river with a sustained flow of 157,000 cubic feet of water a second. How to build a dam that will pass such an enormous amount of water from the lake surface to sea level, 55 feet below, has been a difficult problem to solve.

The Chagres now crosses the line of the canal 23 miles on its 23 miles from Gamboa, where it first strikes the big waterway, to run. When the Gatun dam is completed the river will lose itself in the waters of the lake at Gamboa. The spillway over which the surplus water will flow, consists of a huge crescent shaped dam of concrete surmounted by 13 large piers and two

Solomonville, Arizona.  
Mr. Frederic J. Haskin,  
Care The Herald,  
El Paso, Texas.  
Dear Sir:-  
I have derived much pleasure and information from the perusal of your book, "The American Government." It gives such an impression of the immensity and greatness of our government that one is inspired to a deeper sense of appreciation and love of country, and it is a genuine pleasure to recommend it to the general public, as it gives just the information that the people want to know in a concise and interesting manner, as the hull is eliminated and nothing but the kernel remains. I think a copy should be in every school and home in the land.

Yours very sincerely,  
J. A. Woods,  
County School Superintendent,  
Graham County, Arizona.

big abutments, which divide the dam into 14 openings, each of which will be opened and closed by giant gates. Digging the Canal.  
Almost every method of excavating known to the engineering world is brought into use in digging the Panama canal. At the entrance on each side into the canal, giant suction dredges collect the material and carry it out to sea. On each side of the canal, there are huge 40-inch pumps, operated by centrifugal pumps, which work with such tremendous suction power that they pick up such things as pieces of anchor chains.

In the Culebra cut the steam shovel, the dynamite and the carload of explosives are fired off every month in the canal works, the major portion of the work is done by dynamite. The big blast 25 or more wells are dug by machines operated by the largest air compressor plant in the world. This plant is a 100-horse power engine, which is used to compress the air for the dynamite.

In another place hydraulic excavation is resorted to. Here one sees a great quantity of water, capable of forcing 20,000 gallons of water a minute through a pipe which tapers from 40 to 18 inches in diameter. To this are added four or five smaller nozzles through which are forced streams of water from 8 to 6 inches in diameter, with a pressure of 100 pounds to the square inch. These streams of water literally eat the dirt away.

Giant Marine Steamways.  
The canal would be of no use were there not a method of getting ships from the sea level to the lake level. To accomplish this purpose giant marine steamways are being built. These are constructed like a double-track railway, with the ships as the cars. The water level is going down. There are three steps in the stairway at Gatun. The first step is at the Pacific side there is one step at Pedro Miguel and two at Miraflores. At each step a ship is lifted up or down slightly, and passes over a series of locks.

The water is first admitted into the big locks, and then the water is raised to the level of the lake. When a ship seeks to pass over the locks, the water is raised to the level of the lake. The water is raised by a series of smaller locks, 8 feet in diameter, which run across the locks under the big locks. The water is raised by a series of smaller locks, 8 feet in diameter, which run across the locks under the big locks.

The lock machinery is operated by electricity generated at Gatun dam. The world's most elaborate system of protecting the locks from fire has been resorted to. When a ship approaches the upper lock it encounters a huge steel cage, which is raised to a giant hydraulic jack. After the vessel is stopped it will be met by four large towing locomotives on narrow-gauge tracks. The ship will be hauled to its bow and towed to its stern, the two in front pulling it forward and the two behind pushing it.

(This is part of a chapter on "The Panama Canal" from the book "The American Government" by Frederic J. Haskin, which is now in the hands of the readers of the El Paso Herald. The book is a most advantageous work. See notice elsewhere on this page. Incidentally, Frank G. Carpenter will this week begin a series of articles in the Week-End El Paso Herald on the Panama canal and its greatness. The first article will appear this week.)

TOMBSTONE ISOLATED WHEN  
PHONE LINES GO DOWN  
Tombstone, Ariz., March 13.—Tombstone was cut off from the outside world for two days on account of the line going down between here and Phoenix. Since the telephone company of the Mountain States company saw fit to cut the other lines leading out of Tombstone, the city was isolated. The lines are now being repaired and service should be had to all parts of the line. The lines are still up to the point of the line being cut.

## MAKING VALLEY A VAST ORCHARD

Thousands of Pear Trees  
Being Set Out Around  
Las Cruces.

The office of The Herald for Las Cruces is in the Robinson Drug Store, "The Quality Store." This firm will deliver The Herald each night at the regular rate of 40 cents a month.

Las Cruces, N. M., March 13.—That the Mesilla valley is destined to become one of the great fruit sections of the southwest is believed an assured fact. Alfalfa fields in the valley are gradually giving way to fruit and higher priced crops.

Less than four years ago Dr. W. C. Field secured 126 acres of valley land, which he is gradually giving away to fruit and higher priced crops. The trees will be set out in the nursery where they will remain for next year's planting. The trees will be used to replace alfalfa that will be plowed under and thus enrich the ground and make the land much more valuable.

After building a modern home Mr. Crappie stated that a peach tree farm and has 12,000 fruit trees ready for planting this season. The plan is to set out 6000 pear trees at the rate of \$5 a tree to the acre. These trees will not be in full bearing for five to seven years, and to fill in between now and the time the peach trees come in, 6000 peach trees which will be set out between the rows. The peach trees should begin to bear in two years and the five crops of peaches that will come in before the pears are bearing will more than pay the cost of the orchard and the expense of keeping it up.

It is estimated by those who have peach orchards that are producing at the present time that a peach tree years old will pay about \$4 per season, and counting 1000 live trees out of the 6000 that will be set out, it will not be necessary to cut out the peach trees for about seven years after which the pears will demand all the room.

Large Tract For Fruit Orchard.  
The purchase of 50 acres within half a mile northeast of town by F. M. Kraymer to be subdivided into five acre tracts is a direct result of the examination made by soil experts who have been planting the valley for the department of agriculture during the past few months.

The statement has been repeatedly made by various authorities that the first peach lands along the Rio Grande valley will be the fruit lands of the future, and Mr. Nelson of the department of agriculture on several occasions stated that he believed these upper bench lands were the best for fruit of any lands in the entire project.

One large well, throwing 500 gallons per minute, should be sufficient to irrigate this entire tract of 50 acres in fruit. It is claimed, and the expense of pumping 100 feet, which will be the estimated cost on this tract, will not be excessive.

The demand for five and ten acre tracts for fruit and chicken ranches is already being felt throughout this section, as well as in the Mesilla valley and along the Pecos, and it is now being felt that the future of the valley will be the fruit lands of the future, and Mr. Nelson of the department of agriculture on several occasions stated that he believed these upper bench lands were the best for fruit of any lands in the entire project.

Prospect avenue, between Santa Fe and Cortez streets—W. E. Porter and wife to Rodolfo Cruz, lots 24 to 28, block 23, Santa Fe Heights, consideration \$22,400; March 1, 1912.

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North Stanton street, between Wagon and Broadway streets—J. A. White, block 22, Satterfield's addition; also known as block 24, Campbell addition; consideration \$1800; February 1, 1912.

## Catarrh of the Nose, Throat and Lungs



Catarrh of the nose is not the simple trouble that many imagine as the natural tendency of all inflammations of the kind is to spread to other portions of the body more especially the Ears, Throat and Lungs. Many people with Bronchial catarrh, have been told that they have Consumption and while this trouble predisposes one to consumption, there is a great difference, as one is curable and the other incurable, the symptoms are very similar in many respects and a careful examination is necessary in order to differentiate them.

In the treatment of Catarrh our method "A correct diagnosis and removal of the cause" is particularly applicable, for instance if the trouble is due to a tumor, polypus, or deformity, sprays, powders and inhalers of all kinds are useless, so why experiment? We will make a careful examination of any case, tell you just how long it will take to effect a cure and the exact cost. If incurable we will tell you so, if curable we will accept the case for treatment under a written legal guarantee.

We treat with the same guarantee of success, Rupture, Rheumatism, Blood Poison, Scrofula, Eczema, Epilepsy, Nervous decline, Stricture, Varicocele, Hydrocele, Prostatic and Kidney troubles, Piles and rectal diseases, and Private Diseases and weaknesses and their complications. We are the oldest, longest established, most successful and reliable Specialists in the southwest.

AND NUMBER AMONG OUR PATIENTS PEOPLE OF THE BEST FACILITIES in this country. IF UNABLE TO CALL, WRITE for information concerning home treatment, describe your case fully and if you desire, we will send you one of OUR BOOKS with improved symptom chart.

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**COUPON**  
Save it for a copy of  
**The American Government**  
By FREDERIC J. HASKIN  
The Book That Shows Uncle Sam at Work  
MARCH 13

Dealing to render a great educational service to its readers, The Herald has arranged with Mr. Haskin to handle, without profit, to itself, the exclusive output of his valuable book for the El Paso district. Out the Coupon from six consecutive issues of The Herald, and present them, with fifty cents to cover the bare cost of manufacture, freight and handling, and a copy will be presented to you without additional cost. Bear in mind that this book has been most carefully written; that every chapter in it is vouched for by an authority; that it is illustrated from photographs taken especially for it; that it is printed in large, clear type on fine book paper and bound in an attractive durable manner. A two dollar value for fifty cents. Act quickly if you want a copy.

Save six coupons of consecutive dates and present them at The Herald office, first floor, corner El Paso and San Francisco streets. Each Book by Mail Fifteen Cents Extra for Postage. Remittances by mail should be made by postoffice or express money order or two cent stamps. We will not be responsible for coin sent in letters.

**BIG SPRING TO BE  
MECCA FOR SHRINERS**  
Change Is Made in General  
Foremanship of T. P.  
Shops.  
Big Spring, Tex., March 12.—April is the date set for the holding of the big Shriner's meeting in Big Spring. The degree team from Hells temple, of Dallas, will be here on that occasion in full force and a great gathering is anticipated.

Very odd weather is prevailing, an unusual article for this time of year for this country. Dr. W. C. Campbell, who has just moved to this city from Stanton, Tex., has acquired a half interest in the Wright sanitarium here, paying Dr. Wright \$1000.

Geo. Tansitt, who has been general foreman of the Texas & Pacific shops in Big Spring, for the past 20 years, has been succeeded by F. A. Carlson, who comes from the Frisco road. W. F. Soash has arrived from the north with a party of 40 homeseekers, who come to inspect lands in the Big Spring country. Everything appears favorable for a large immigration into this country this year.

Mrs. E. W. Douthett entertained a number of friends complimentary to Mrs. Tansitt, of Sweetwater, Texas. George E. McGraw and Ben Allen have purchased the Union barber shop, the old chair shop, from P. L. Caldwell. Mrs. Little Brown, aged 30 years, died here at the home of her sister, Mrs. C. L. Stephens, after a short illness. The remains were taken to the old home at Nacogdoches for burial.

Frank Worrell, who was charged with killing W. D. Nelson here a few weeks ago, was found guilty of manslaughter and sentenced to three years in the penitentiary. C. W. Willis, aged about 50 years, died in this city after a long illness. He was a prominent citizen, having been postmaster here at one time for a number of years.

## PIONEER CITIZEN DIES AT PORTALES

Business House and Courts  
Close for Funeral of  
John M. Faggard.

Portales, N. M., March 12.—John M. Faggard, one of the pioneers of Portales, died at his home here, leaving a wife and six children, all of whom were with him at the time of his death. Mr. Faggard had been in business at Portales for a number of years. The funeral services were held at the Baptist church by Rev. E. P. Alldredge and a large number of friends accompanied the body to the grave, where the services were concluded by the Masons. The business houses were closed and court adjourned from 2 to 5 p. m. for the funeral service.

Dr. A. J. Evans, of Elida, passed through Portales en route to Santa Fe, where he represents the county in the state senate, and spent a few hours here before leaving. P. E. Carter, representative, en route to Santa Fe, stopped at Portales to finish up some business on his way. J. H. Thrasher, supervisor for the growing of sugar beets for the Portales

## A MESSAGE TO WOMEN

A Patterson, N. J., young woman, Miss Elizabeth Bushloper, has written a message to the women of America that will be of great value to those who heed it. She says: "Every spring for some years I have been debilitated, having general weakness and feeling tired and worn-out all the time. This spring I determined I would fight it off with Vinol. Vinol has done all that was claimed for it. It has given me new strength and vigor. I can eat heartily and my sleep is light and refreshing. I wish every tired-out woman could know what great good Vinol would do for her." Spring is the most trying time of year for most people, and it is well to know that Vinol, our delicious cod liver and iron remedy without oil, is the most valuable spring medicine.

## Peace and Plenty

Do all Americans realize that the peace and plenty that is theirs is a result of their good government? Or do they too often accept tranquility and prosperity as a matter of course? These are questions that no young American ought to be permitted to ignore. The best way to teach the child the big facts about the government of the United States is to give him to read

"The American Government"  
By Frederic J. Haskin  
The Book that Shows Uncle Sam at Work

Here is what a leading educator of New Mexico has to say about this book that is being distributed in this territory by The El Paso Herald for the mere cost of production and handling: "I think every American Boy and Girl, and every American citizen should read your book, 'The American Government,' that they may more fully appreciate the working of our great Republic, and every citizen of every other nation would do well to read the book, that they may know what is being done in the Greatest Country in the World. 'I would be glad to see the book in every school library.' L. C. MERSEFELDER, Supt. Curry County Schools.

**Out of Sorts**  
When everything goes wrong and the future looks black, instead of moping around go right to your druggist and ask for  
**Tutt's Pills**  
You will find this a short cut to happiness, because they will remove the cause of your trouble which is nothing more than a sluggish liver. At your druggist—sugar coated or plain.

**SCOTT'S EMULSION**  
is the near-nature treatment for Consumption.  
The power it creates, its purity and wholesomeness are Nature's greatest aid in overcoming disease.  
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